TITLE: Use of phenylpyrimidines as plant growth regulators

INVENTOR(S): Seiler, Alfred; Mueller, Urs
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Ger. Dem. Rep.

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CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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EP 136976	A2	19850410	EP 1984-810408	19840820) <
EP 136976	А3	19850515			
R: BE, CH, DE,	FR, GB	, IT, LI, NL			
JP 60072808	A	19850424	JP 1984-175823	19840823	3 <
PRIORITY APPLN. INFO.:			CH 1983-4614	A 19830823	3 <
OTHER SOURCE(S):	MARPAT	104:47176			
ED Entered STN: 23 Fe	eb 1986				

$$R_{n} \xrightarrow{\mathbb{N}} \mathbb{R}^{1}$$

AB The phenylpyrimidines I (R = H, halo, NO2, CN, OH, alkyl, etc.; R1 and R2 = H, halo, alkyl, alkoxyalkyl, etc.; R3 = H, halo, alkyl, haloalkyl, or Ph) are plant growth regulators. Thus, 2-phenyl-4,6-dichloropyrimidine [3740-92-9] (500 mg/kg), applied as a seed dressing, increased the length and weight of wheat roots. The synthesis of I is given.

IC ICM A01N043-54

CC 5-3 (Agrochemical Bioregulators)
Section cross-reference(s): 28

Section cross-reference(s): 28 3740-90-7P 3740-91-8P 3740-92-9P 13514-79-9P 14727-23-2PΙT 15726-40-6P 17077-89-3P 17077-93-9P 20655-14-5P 21139-61-7P 21139-63-9P 26863-48-9P 26863-54-7P 26870-72-4P 29509-92-0P 72520-17-3P 29954-25-4P 35252-98-3P 77232-12-3P 77232-14-5P 77232-18-9P 77232-19-09 77232-21-4P 77232-23-6P 77232-25-8P 79382-43-7P 79382-42-6P 79382-44-89 79382-47-1P 79382-45-9P 79382-46-0P 79382-50-6P 79382-49-3P 79382-48-2P 79382-77-7P 79382-51-79 79382-68-6P 79382-78-8P 79382-82-4P 79396-00-2P 83216-81-3P 83216-82-4P 83216-83-5P 83216-84-6P 83216-85-7P 83216-87-9P 83216-88-0P 83216-86-8P 83216-89-1P 83216-90-4P 83216-91-5P 83216-92-6P 83216-93-7₽ 83216-94-8P 83216-95-9P 83216-96-0P 83216-97-1P 83216-98-2P 83216-99-3P 83217-00-9P 83217-01-0P 83217-03-2P 83217-04-3P 83217-02-1P 83217-05-4P 83217-06-5P 83217-07-6P 83217-08-7P 83217-09-8P 83217-10-1P 83217-11-2P 83217-12-3P 83217-13-4P 83217-14-5P

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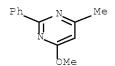
RL: AGR (Agricultural use); <u>BAC (Biological activity or effector, except adverse)</u>; BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as plant-growth regulator)

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                    83217-04-3P
     97513-49-0P
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RL: AGR (Agricultural use); <u>EAC</u> (<u>Biological activity or effector</u>, <u>except adverse</u>); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as plant-growth regulator)

RN 72520-17-3 HCAPLUS

CN Pyrimidine, 4-methoxy-6-methyl-2-phenyl- (CA INDEX NAME)



CN

RN 77232-14-5 HCAPLUS

Pyrimidine, 4,6-dimethoxy-2-(4-methylphenyl)- (CA INDEX NAME)

RN 77232-18-9 HCAPLUS

CN Pyrimidine, 4,6-diethoxy-2-(4-methylphenyl)- (CA INDEX NAME)

$$\underbrace{ \text{EtO}}_{\text{N}} \underbrace{ \text{N}}_{\text{N}} \underbrace{ \text{Me}}_{\text{Me}}$$

RN 77232-19-0 HCAPLUS

CN Pyrimidine, 2-(4-methylphenyl)-4,6-dipropoxy- (CA INDEX NAME)

RN 77232-21-4 HCAPLUS

CN Pyrimidine, 4-chloro-2-(4-methylphenyl)-6-phenyl- (CA INDEX NAME)

RN 77232-23-6 HCAPLUS

CN Pyrimidine, 4-methoxy-2-(4-methylphenyl)-6-phenyl- (CA INDEX NAME)

$$\stackrel{\text{MeO}}{\underbrace{\hspace{1cm}}} \stackrel{N}{\underset{\text{Ph}}{}} \stackrel{N}{\underbrace{\hspace{1cm}}} \stackrel{Me}{\underbrace{\hspace{1cm}}} \stackrel{Me}{\underbrace{\hspace{1cm}}}$$

RN 79382-42-6 HCAPLUS

CN Pyrimidine, 4,6-bis(1-methylethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-43-7 HCAPLUS

CN Pyrimidine, 2-(4-methylphenyl)-4,6-diphenoxy- (CA INDEX NAME)

RN 79382-44-8 HCAPLUS

CN Pyrimidine, 4,6-bis(2-methoxyethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-46-0 HCAPLUS

CN 4-Pyrimidinamine, 6-(2-methoxyethoxy)-N-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-47-1 HCAPLUS

CN 4-Pyrimidinamine, N,N-diethyl-6-(2-methoxyethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-48-2 HCAPLUS

CN 4-Pyrimidinamine, 6-chloro-N-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-49-3 HCAPLUS

CN 4-Pyrimidinamine, 6-chloro-N, N-diethyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-50-6 HCAPLUS

CN Pyrimidine, 4,6-bis(ethylthio)-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-51-7 HCAPLUS

CN Pyrimidine, 4,6-dibutoxy-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-78-8 HCAPLUS

CN Pyrimidine, 4-methoxy-6-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 79382-82-4 HCAPLUS

CN Pyrimidine, 4-methyl-2-(4-methylphenyl)-6-phenoxy- (CA INDEX NAME)

$$\stackrel{\text{Me}}{\overbrace{\hspace{1.5cm}}} \stackrel{\text{N}}{\overbrace{\hspace{1.5cm}}} \stackrel{\text{Me}}{\overbrace{\hspace{1.5cm}}} \stackrel{\text{Me}}{\overbrace{\hspace{1.5cm}}}$$

RN 83216-84-6 HCAPLUS

CN Pyrimidine, 4-chloro-6-methoxy-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83216-85-7 HCAPLUS

CN Pyrimidine, 4-chloro-6-methoxy-5-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83216-86-8 HCAPLUS

CN Pyrimidine, 4-chloro-6-(1-methylethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83216-87-9 HCAPLUS

CN Pyrimidine, 4-chloro-2-(4-methylphenyl)-6-phenoxy- (CA INDEX NAME)

RN 83216-88-0 HCAPLUS

CN 4-Pyrimidinamine, 5-bromo-6-chloro-N-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83216-89-1 HCAPLUS

CN Pyrimidine, 4-(2-methoxyethoxy)-6-methyl-2-phenyl- (CA INDEX NAME)

RN 83216-90-4 HCAPLUS

CN Pyrimidine, 4-[2-(2-methoxyethoxy)ethoxy]-6-methyl-2-phenyl- (CA INDEX NAME)

RN 83216-91-5 HCAPLUS

CN Pyrimidine, 4-(2-methoxyethoxy)-6-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83216-92-6 HCAPLUS

CN 4-Pyrimidinamine, N,N,6-trimethyl-2-phenyl- (CA INDEX NAME)

RN 83216-93-7 HCAPLUS

CN 4-Pyrimidinamine, N,N,6-trimethyl-2-(4-methylphenyl)- (CA INDEX NAME)

$$\stackrel{\text{Me}}{\underbrace{\qquad \qquad }} \stackrel{\text{N}}{\underbrace{\qquad \qquad }} \stackrel{\text{Me}}{\underbrace{\qquad \qquad }} \stackrel{\text{Me}}{\underbrace{$$

RN 83216-94-8 HCAPLUS

CN 4-Pyrimidinamine, 5-bromo-N,N,6-trimethyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83216-98-2 HCAPLUS

CN Pyrimidine, 4,6-dimethoxy-5-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83216-99-3 HCAPLUS

CN Pyrimidine, 4,6-dimethoxy-2-(4-methylphenyl)-5-phenyl- (CA INDEX NAME)

RN 83217-00-9 HCAPLUS

CN Pyrimidine, 5-bromo-4,6-bis(1-methylethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83217-01-0 HCAPLUS

CN Pyrimidine, 4,6-bis(2-methoxyethoxy)-5-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83217-02-1 HCAPLUS

CN Pyrimidine, 5-chloro-4,6-bis(2-methoxyethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83217-03-2 HCAPLUS

CN Pyrimidine, 5-bromo-4,6-bis(2-methoxyethoxy)-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83217-04-3 HCAPLUS

CN 4-Pyrimidinamine, 5-bromo-6-(2-methoxyethoxy)-N-methyl-2-(4-methylphenyl)- (CA INDEX NAME)

RN 83217-71-4 HCAPLUS

CN 4-Pyrimidinol, 6-chloro-2-(4-methylphenyl)-, 4-acetate (CA INDEX NAME)

RN 97513-49-0 HCAPLUS

CN 4-Pyrimidinesulfonic acid, 3,6-dihydro-2-(4-methylphenyl)-6-oxo-, methyl ester (CA INDEX NAME)